

MUKHINA, V.A.

Specialization, redistribution of assortments among enterprises,
and production calculation. Tekst.prom. 22 no.1214-7 D '62.

1. Starshiy inzh. Instituta ekonomiki AN Belorusskoy SSR.
(White Russia—Textile industry)

BRILLIANT, V.A.; MUKHINA, V.A.; SMETANNIKOVA, A.I.

Some results of the physiological study of the tea plant. Trudy Bot.inst.
Ser.4.no.9:155-180 '53. (MLRA 6:6)

1. Botanicheskiy institut imeni V.L. Komarova akademii nauk SSSR. (Tea)

MUKHINA, V. A.

"Ecologic-Physiological Investigation of Tea." Cand Biol Sci, Inst
of Botany, Acad Sci USSR, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

MURHINA, V.A.

Ecological and physiological characteristics of photosynthesis growth,
and accumulation of dry body in tea. Trudy Inst.fiziol.rast. 10:177-188
'55. (MLRA 8:9)

1. Botanicheskiy institut Akademii nauk SSSR. (Tea)

MUKHINA, V.A.

Ecological and physiological study of tea in connection with its
introduction into the Moldavian S.S.R. Trudy Bot.inst.Ser.4 no.10:
14-73 '55. (MLRA 9:5)

(Moldavia--Tea)

Mukhina, V.A.

USSR / Plant Physiology. General Problems.

H-1

Abs Jour : Rof Zhur - Biol., No 16, 25 Aug 57, No 68906

Author : Mukhina, V.A.
Title : Some Data in Studies of Photosynthesis on Terrestrial
Plants by the Enzymetric Method.

Orig Pub : Tr. Botan. in-ta AN SSSR, 1956, series 4, No 11,
225-240

Abstract : A new type of vessel for use in the Warburg apparatus for
enzymatic measurements in photosynthesis is proposed.
It is of cylindrical form (33-38 cm³ volume, 4.5 cm diameter,
3.5 cm height) which provides a favorable ratio between
the buffer area and the volume of the gasous phase.
The highest photosynthetic intensity was observed at a
CO₂ concentration of about 2% in the vessel. For the determination
of photosynthesis in the described vessels, leaf
cuttings with an area of 2-6 cm², exposed for 45 min.,
are most suitable. Based on the results of their own

Card 1/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135530002-1

MUKHINA, V.A.; LIVSLE, F.F.

Some physiological characteristics of Perilla during the
photophase. Trudy Bot.inst.Ser. 4 no.13:266-293 '59.
(MIRA 13:3)
(Photoperiodism)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135530002-1"

MUKHINA, V.A.

Diurnal course of photosynthesis and translocation of assimilates
during the photophase in some short-day and long-day plants
[v.s.i.E]. Trudy Bot. inst. Ser.4 no.14:167-187 '60. (MIRA 14:3)
(Photosynthesis) (Photoperiodism) (Plants, Motion of fluids in)

MUKHINA, V.A., nauchnyy sotrudnik

Utilization of the hidden potentialities of production in
the textile enterprises of White Russia. Tekst. prom. 20
no. 11:67-69 N '60. (MIRA 13:12)

1. Institut ekonomiki Akademii nauk BSSR.
(White Russia--Textile industry)

CHERNOGORSKIY, S.A.; MUKHINA, V.A.

State of chlorophyll in leaves as related to the geographical origin
of plants. Bot. zhur. 46 no. 5:683-685 My '61. (MIRA 14:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Chlorophyll)

MUKHIN, V.F.; MUKHINA, V.A.

Characteristics of the growth and development of corn in Leningrad
Province. Trudy Bot. inst. Ser. 4 no. 17:35-52 '64.

(MIRA 18:1)

MUKHINA, V.A., kand. ekonom. nauk, starshiy nauchnyy sotrudnik

Use of synthetic fibers and materials in the textile industry
of White Russia. Tekst. prom. 25 no.12:23-25 D '65.

(MIRA 19:1)

1. Institut ekonomiki AN BSSR.

MUKHINA, V.N.

SAMARCHYAN, R.S.; MUKHINA, V.N.; SULTANOV, K.I.; PRANULIS, M.P.

Torch lines and safety valves in oil and gas refineries. Azerb.
neft.khoz. 35 no.10:33-35 O '56. (MIRA 10:1)
(Petroleum--Refineries)

MUKHINA, V.P.; KONEV, P.N.; SHNEYDER, B.A.; SHUYSKIY, V.P.

Basic characteristics of the paleogeography of the Urals in the
Eifelian stage. Dokl. AN SSSR 164 no. 3:644-647 S '65.

(MIRA 18:9)

1. Ural'skoye geologicheskoye upravleniye. Submitted December
21, 1964.

MUKHINA, V.S.

Graphic activities, terminates in connection with the general emotional situation around the period of the 1917 Revolution. Op. plan no. 4:180-176. File No. 112. (M.V.L.)

1. Kafedra pokhodov No. svakogo periooda v otdelit. imeni Lenina.

L 08083-67 ENT(1) GW
ACC NR: AP7001678

SOURCE CODE: UR/0213/66/006/001/0122/0135

AUTHOR: Mukhina, V. V.

8

ORG: Institute of Oceanography, AN SSSR (Institut okeanologii AN SSSR)

B

TITLE: Problem of the boundary between the quaternary and tertiary sediments of the Pacific Ocean

SOURCE: Okeanologiya, v. 6, no. 1, 1966, 122-135

TOPIC TAGS: oceanography, stratigraphy

ABSTRACT: The method of diatom analysis has been used for an investigation of the bottom sediments of the equatorial zone of the Pacific Ocean for their stratigraphic separation and clarification of the paleoclimatic conditions of sedimentation. Diatomaceous and other algae were studied in the deposits of four cores taken at four stations by the "Vityaz" and cores taken by Swedish investigators at two stations. Four stations were in a zone of diatomaceous-radiolarian silts and the other two were in a region of typical carbonaceous sediments. Most of the article is a detailed description of the contents of each of the cores. It was found that the sediments in different cores were accumulated during periods of different duration. It was possible to some degree to reconstruct the history of sedimentation on the ocean floor from the Late Tertiary and the study shows that such cores can lead to a far better understanding of development of the ocean floor. Orig. art. has: 5 figures and 1 table. [JPRS: 30,230]

SUB CODE: 08 / SUBM DATE: 01Sep64 / ORIG REF: 007 / OTH REF: 005

Card 1/1

07-24 14 U.S.

ACC NR: AP7006060

SOURCE CODE: UR/0213/66/006/005/0807/0816

AUTHOR: Mukhina, V. V. -- Muhina, V. V.

ORG: Institute of Oceanology, AN SSSR (Institut Okeanologii AN SSSR)

TITLE: Siliceous organisms in suspension and in the surface layer of bottom sediments of the Indian Ocean

SOURCE: Okeanologiya, v. 6, no. 5, 1966, 807-816

TOPIC TAGS: oceanography, biology

SUB CODE: 08,06

ABSTRACT: The quantities of all the four groups of siliceous organisms and the specific composition of diatoms and silicoflagellata contained in samples of suspensions and in the surface layer of bottom sediments from the Indian Ocean are considered. The quantitative distribution of the siliceous organisms is subject to climatic zonality: in the surface layer of the ocean their high content is confined to the water rich in nutrient salts (divergence zones), whereas in the surface layer of the bottom sediments they are predominant in the areas where radiolarian-diatomaceous ooze are widely distributed. The latter fact is attributed to a rich development of plankton in the given area and to the absence of carbonate and terrigenous material among the siliceous sediments. With respect to specific composition, diatomaceous biocoenoses differ considerably from their tanatocoenoses. The representatives *Nitzschia*, *Chaetoceros*, which are predominant almost everywhere in the surface layer of the ocean, are replaced in the bottom sediments by the representatives of the genus *coscinodiscus*. Orig. art. has: 5 figures and 3 tables. [JPS: 39,180]

Card 1/1

UDC: 551.352

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MUKHINA, Ye, G.

Possibility of advancement of commercial almond plantations to the
steppe and piedmont zones of the Crimea. Izv. Krym. otd. Geog. ob-va.
no.2:69-74 '53. (MIRA 8:7)
(Crimea--Almond)

MUKHINA, Ye.G.

МУХИНА, Е.Г.

Measurement of plant temperature by means of a thermoelectric
diode-like receiver. Trudy T.I. No.37; 1974, p. 154. (1974)

Л. (ледский гидрометеорологический институт.
(Plant temperature) (Thermocouples)

MUKHINA, Ye. G.

Effect of saturation irrigation on the displacement of phase development of fruit crops. Trudy Ukr. NIGNI no. 3:61-63 '55.

(MIRA 9:10)

1. Odesskiy gidrometeorologicheskiy institut.
(Soils moisture) (Fruit culture)

MUKHINA, YE.G.

M-7

USSR/Cultivated Plants - Fruits, Berries

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1712

Author : Mukhina Ye.G. and Sheyntsis O.G.
Inst : Hydrometeorological Institute University of Odessa
Title : Effect of Shower Irrigation on the Retarding Florescence
in Fruit Cultivation.

Orig Pub : Tr. Odessk. gidrometeorol. in-ta, 1956, vyp. 8, 47-55

Abstract : In the botanical garden of Odessa University a shower irrigation of the Kremlevskiy peach trees was performed in spring of 1953; two shower irrigations, one during spring (Ayvazovskiy) and one during autumn (Kremlevskiy) were performed in 1954. A shift in the phase of florescence of the peaches was noted on the irrigated areas, with flowering taking place two to three days later than in control. After the spring and autumn shower irrigations the difference in the moisture content in the soil of the irrigated and control areas reached 10%. The peaches of both varieties on the irrigated sections bloomed 5-6 days later. The increase in the moisture content had a

Card : 1/2

MUKHINA, Ye. G. (Dotsent, Odessa), K TUMANOV, D. F., and N. S. CHOCHIA (Cand. of Geographical Sciences - Leningrad) and GOL'TSBERG, I. A. (Leningrad - Prof.)⁰

"Phenological, Micro- and Macrological Division into Districts."

report presented at a Phenological Conference in Leningrad, Nov 1957,
by USSR Geographical Society.

MUKHINA, Ye. G.; SNEOIREV, D.P. [deceased]

Effect of metereological conditions on the sugar content of peaches.
Trudy OGMI no.16:9-15 '58. (MIRA 12:9)
(Crimea--Peaches) (Crops and climate) (Sugar)

MUKHINA, Ye.G.

Relation between temperature conditions in winter and spring
and the beginning of flowering in peaches and apricots. Trudy
OGMI no.18:7-16 '59. (MIRA 13:5)
(Crimea--Peach) (Crimea--Apricot)

MUKHINA, Ye.G.

Agrometeorological conditions of apricot culture in the Ukraine.
Trudy OGMI no.22:3-7 '60. (MIRA 14:10)
(Ukraine--Apricot) (Meteorology, Agricultural)

MUKHINA, Ye.G.; DMITRIYEVA, L.I.; PERENKOVA, G.P.

Agrometeorological conditions for growing mazzard cherries in
the Ukraine. Trudy OGMI no.25:3-11 '61. (MIRA 16:6)
(Ukraine--Cherry) (Crops and climate)

ALEKSEYEV, Mikhail Dmitriyevich; SLOBODSKAYA, Doroteya Isaakovna; KORZHOVA, Yu.,
spets. red.; MUKHINA, Ye.M., red.; FORMALINA, Ye.A., tekhn. red.

[Canning mackerel and saurel ~~in oil~~ in batch-type blanchers] Vyrabotka
konservov v masle iz skumbrii i stavridy v blanshirovateliakh pre-
ryvnogo deistviia. Moskva, Rybnoe khozaiistvo, 1961. 16 p.

(MIRA 14:9)

(Fish, Canned)

BRUDASTOVA, Mariya Alekseyevna; KONDRAT'YEV, Timofey Terent'yevich;
MUKHINA, Ye.M., red.; POLUYEKHIMA, N.I., tekhn. red.

[Mechanization of work in fish pond management] Mekhanizatsiya rabot v prudovykh rybovodnykh khoziaistvakh. Moskva, Rybnoe khoziaistvo, 1962. 22 p. (MYRA 16:6)
(Fish ponds)

BRUDASTOVA, Mariya Alekseyevna; MUKHINA, Ye.M., red.; POLUYEKHINA,
N.I., tekhn. red.

[Hydraulic structures for pond fish farms] Gidrotekhnicheskie
sooruzheniya prudovykh rybovodnykh khoziaistv. Moskva, Ryb-
noe khozaiystvo, 1962. 32 p. (MIRA 15:10)
(Fishponds)

NIKITIN, Boris Pavlovich; MUKHINA, Ye.M., red.; FORMALINA, Ye.A.,
tekhn. red.

[Organoleptic method for determining the quality of fish and
fishery products] Organolepticheskii metod v otsenke kachestva
ryby i ryhoproduktov. Moskva, Rybnoe khozaiastvo, 1962. 89 p.
(MIRA 16:3)

(Fishery products inspection)

MARTI, Yu.Yu., otv. red.; ALEKSEYEV, A.P., zam. otv. red.; NOSKOV, A.S., zam. otv. red.; BORODATOV, V.A., red.; VINOGRADOV, L.G., red.; ZAYTSEV, G.N., red.; IZHEVSKIY, G.K., red.; KAZANOVA, I.I., red.; KONSTANTINOV, K.G., red.; MUNTYAN, V.M., red.; NAUMOV, V.M., red.; SEDYKH, K.A., red.; FEDOSOV, M.V., red.; CHUMAKOVA, L.S., red.; AYNZAFT, Yu.S., red.; MUKHINA, Ye.M., red.; FORMALINA, Ye.A., tekhn. red.

[Soviet fishery research in the northwestern part of the Atlantic Ocean] Sovetskije rybokhozistvennye issledovaniia v severo-zapadnoi chasti Atlanticheskogo okeana. Moskva, Izd-vo zhurnala "Rybnoe khozistvo," 1962. 375 p. (MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii. 2. Vsesoyuznyy nauchnyy institut morskogo rybnogo khozyaystva i okeanografii (for Marti, Fedosov). (Atlantic Ocean—Fisheries—Research)

MUKHINA, Ye.P.

Placenta pseudozonaria humana. Akush. i gin. 33 no.2:107-109
Mr-Ap '57. (MIRA 10:6)

1. Iz kliniki akusherstva i ginekologii (zav. - prof. A.I.Patchenko)
Leningradskogo pediatriceskogo meditsinskogo instituta.
(PLACENTA
pseudozonaria, rare case)

TOBILEVICH, V.P.; MUKHINA, Ye.P.; GERSHANOVICH, M.L.

Two cases of healing of vesico-vaginal fistulas under the
influence of 4-methyluracil (metacil, methyluracil. Vcp.
onk. 10 no.3:315-317 '64. (MIRA 17:8)

1. Iz laboratoriya eksperimental'noy onkologii (zav. - zaslu-
zhennyy deyataeli nauki RSFSR prof. N.V. Lazarev), ginekolo-
gicheskogo otdeleniya (zav. - prof. V.P. Tobilevich) i tera-
pevticheskoy gruppy Instituta onkologii AMN SSSR (dir. -
deystvital'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres
avtorov: Leningrad, P-329, 2-ya Berezovaya alleya d.3, Insti-
tut onkologii AMN SSSR.

AYNBINDER, N.M.; DIL'MAN, V.M.; MUKHINA, Ye.P.; NECHAYEVA, I.D.; SHARKOVA,
Zh.M.

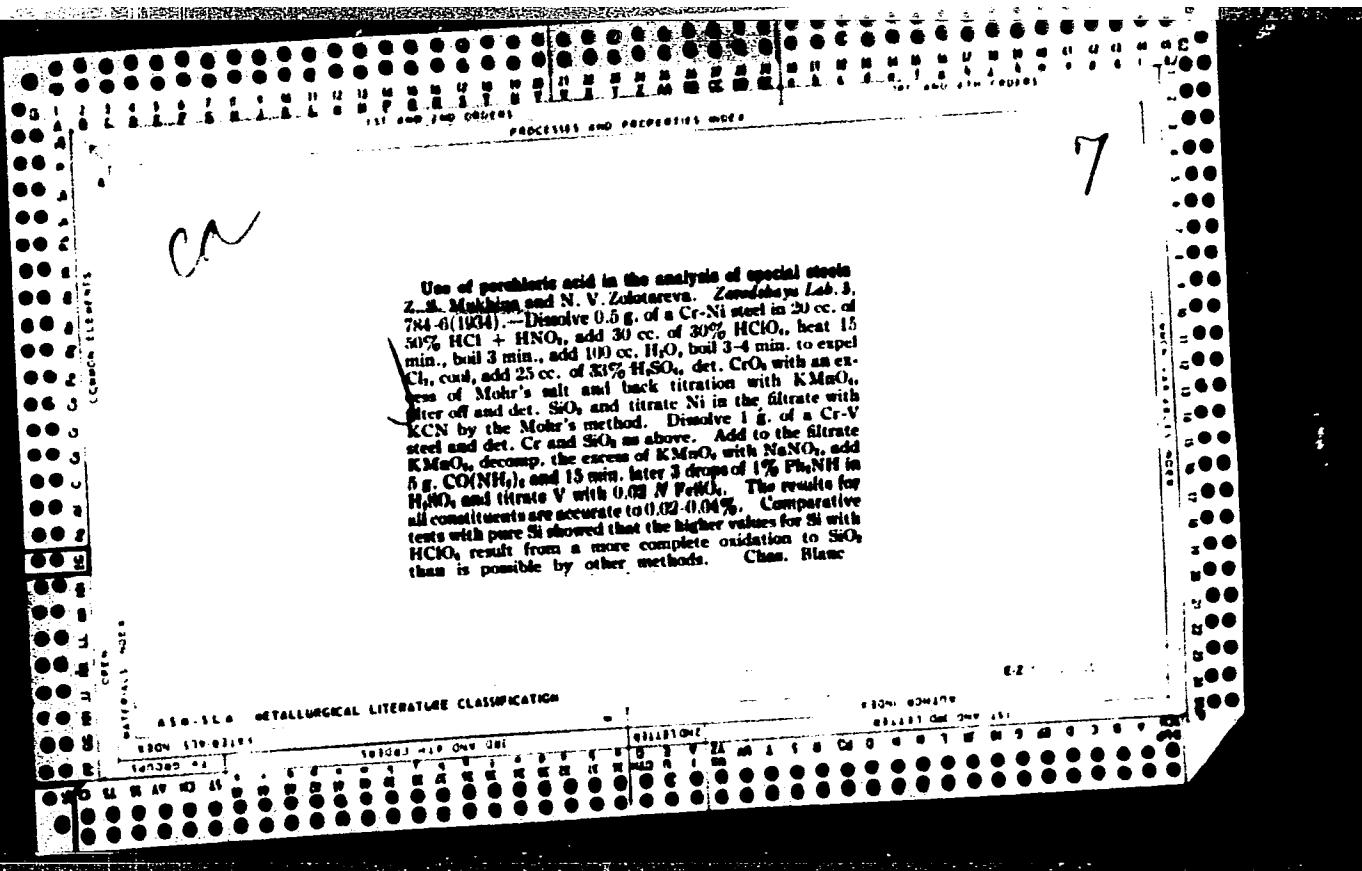
Experience with the antibiotic 2703 in six patients with chorio-
epithelioma of the uterus. Vop. onk. 10 no.5:103-107 '64.
(MIRA 18:8)

1. Iz Instituta onkologii AMN SSSR (dir. - prof. A.I.Serebrov).
Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, 3,
Institut onkologii AMN SSSR.

MUKHINA, Ye.P. (Leningrad, P-49, Zverinskaya ul., 33, kv.18)

Metastasizing of malignant tumors of the ovaries. Vop. onk.
10 no.12;27-31 '64. (MIRA 18:6)

1. Iz kafedry onkologii (zav.- chlen-korrespondent AMN SSSR prof. A.I. Rakov) Leningradskogo instituta usovershenstvovaniya vrachey imeni Kirova (dir.- dotsent S.N. Polikarpov) i ginekologicheskogo otdeleniya (zav.- prof. V.P. Tobilevich) Instituta onkologii AMN SSSR (dir.-deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).



Volumetric determination of chromium, manganese and vanadium with diphenylamine indicator. Z. S. Mukhina and N. V. Zhdanova. Zavodskaya Lab. 3, 881 (1951).
With the aid of diphenylamine as indicator, the permanganate method for determining Cr, Mn and V can be modified so that direct titration can be made with FeS₂ and K₂C₂O₄ can

replace KMnO₄. Full details are given for carrying out the analysis.

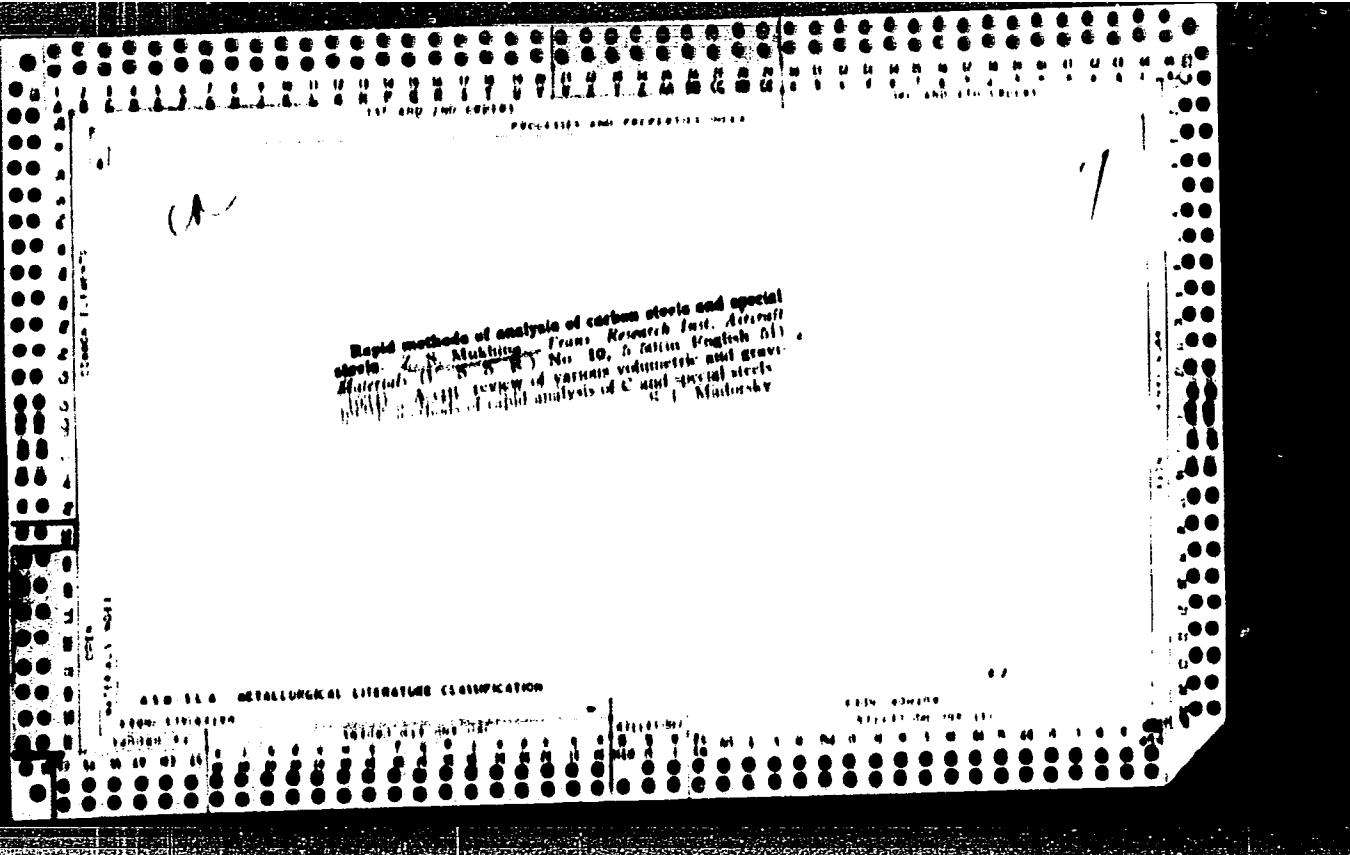
Chas. Blatt

AIRO-LSA METALLURGICAL LITERATURE CLASSIFICATION

SCIENTIFIC

TECHNICAL

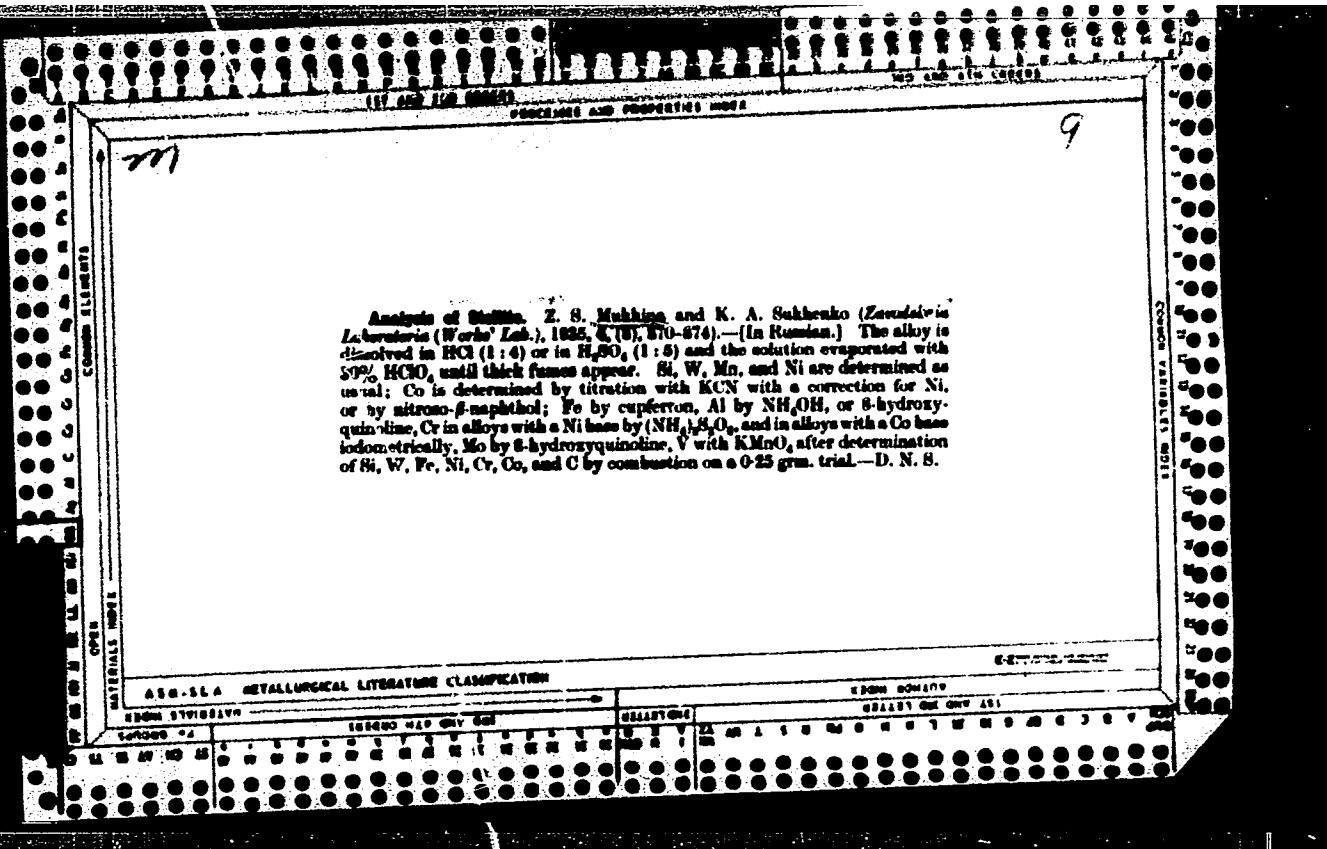
GENERAL

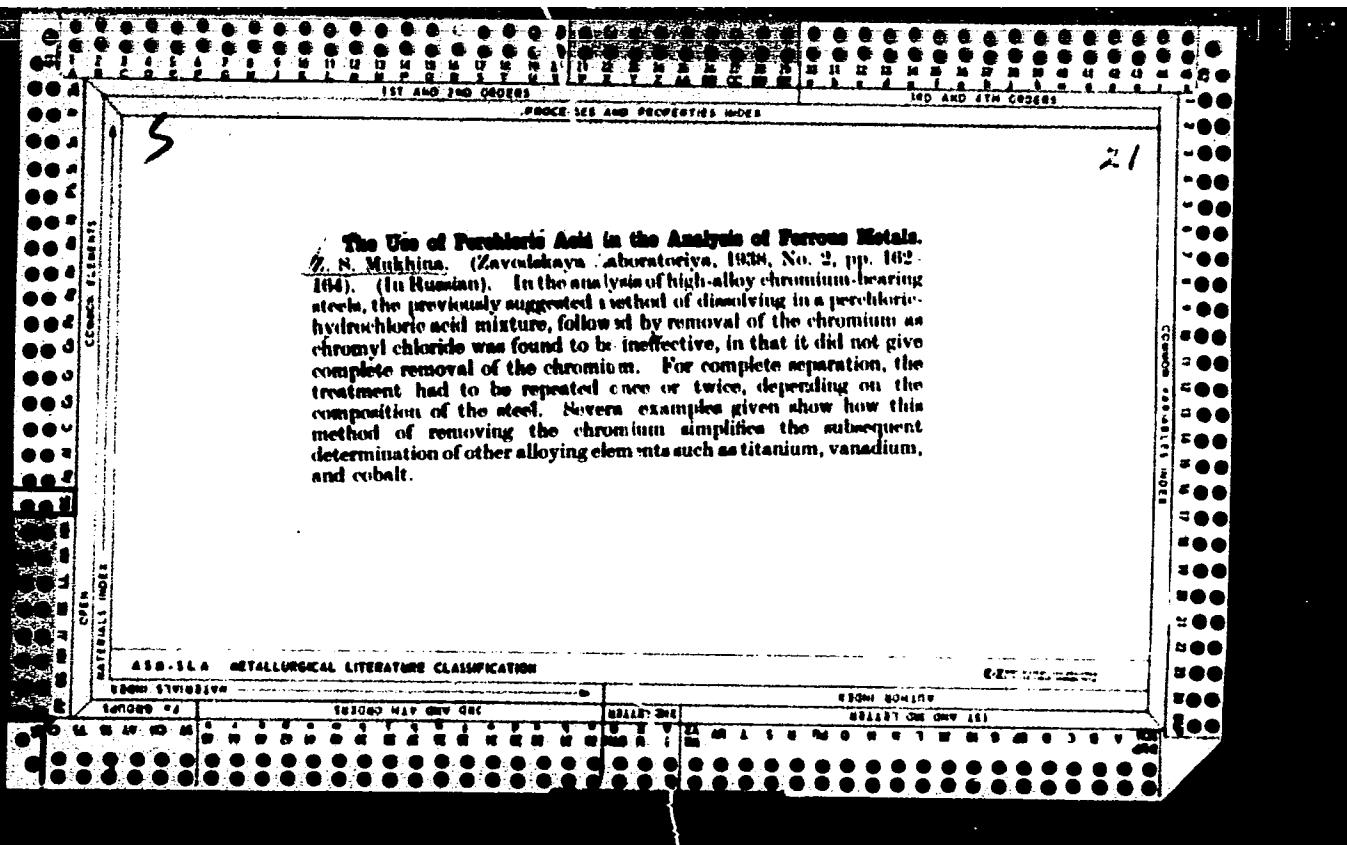


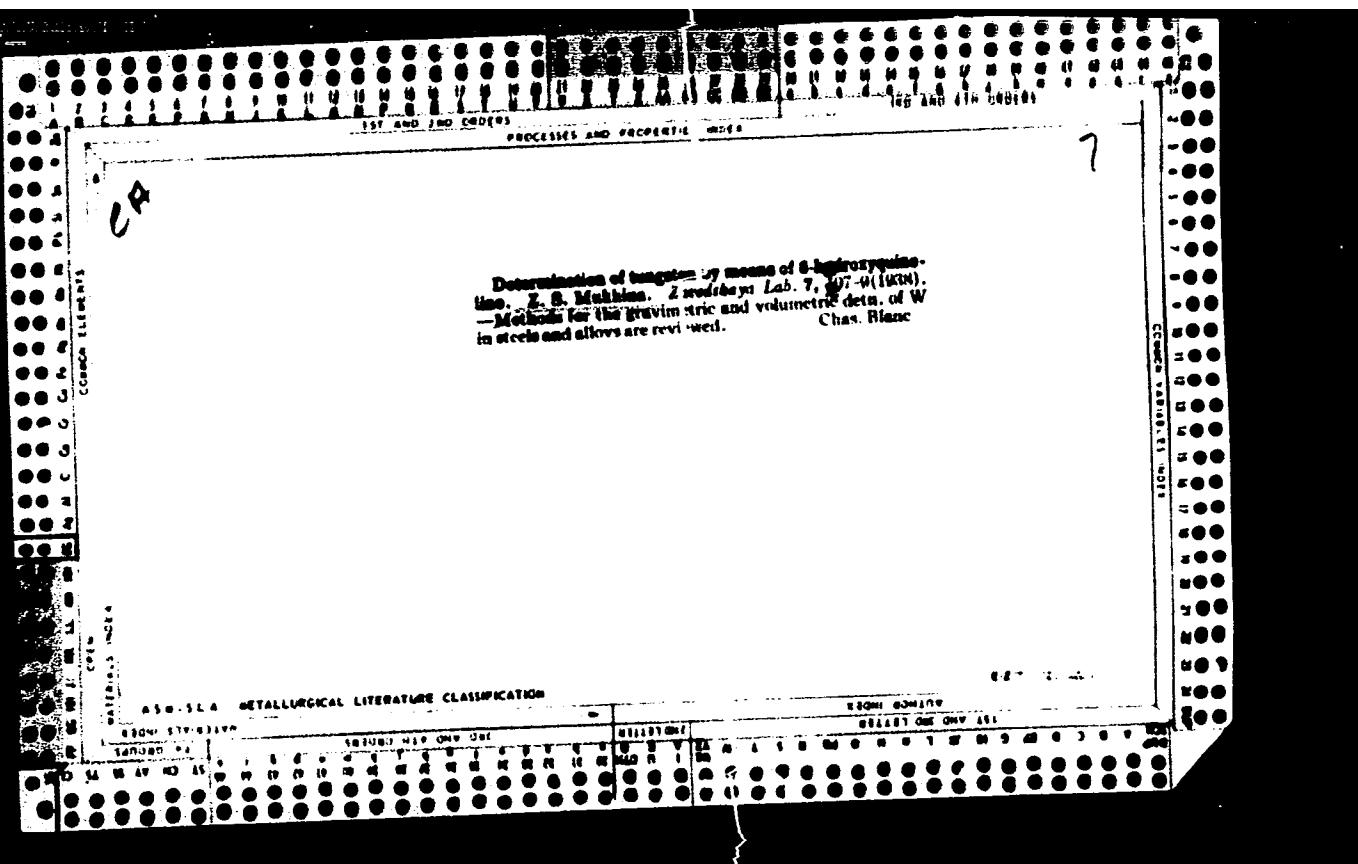
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Use of pyridine in the analysis of special steels. A. S. Mukhina. Zavodskaya Lab. 6, 150 (1955); cf. C. A. 49, 10219. Fe and Cr are retained in soln. with tartaric acid, while Co (together with any Ni, Cu and Zn) is pptd. with $\text{C}_6\text{H}_5\text{N}$ and NH_4CNS as $\text{Co}(\text{CNS})_2\text{C}_6\text{H}_5\text{N}$. Heat 1 g. of steel with HNO_3 and H_2SO_4 , to fuming, dil. with H_2O , evap. to 75 cc., neutralize with NH_4OH to a slight acidity, add 6-8 cc. of 50% tartaric acid and 0.5 g. NH_4CNS and 1 cc. of $\text{C}_6\text{H}_5\text{N}$ for every 0.1 g. of Co, cool to 15°, filter, wash the ppt. with H_2O contg. 0.5% NH_4CNS and 0.7% $\text{C}_6\text{H}_5\text{N}$, ignite and weigh as $\text{Co}(\text{CNS})_2\text{C}_6\text{H}_5\text{N}$. In the analysis of steels contg. Co, Ni and Cu, dissolve the ignited ppt. in HNO_3 and H_2O_2 , evap. the soln. to fuming, sep. Cu by electrolysis, ppt. Ni in the soln. with dimethylglyoxime and det. Co by difference. An excess of H_2SO_4 and tartaric acid gives low values. No chlorides should be present. The vol. of the soln. should not exceed 75-100 cc. An excess of $\text{C}_6\text{H}_5\text{N}$ dissolves the ppt. Mn is pptd. at 18° and begins to dissolve at 22°. The method is not suited for det. of small quantities of Co (0.1-0.5%) in the presence of considerable Ni. Chas. Blanc

ATA 514 METALLURGICAL LITERATURE CLASSIFICATION







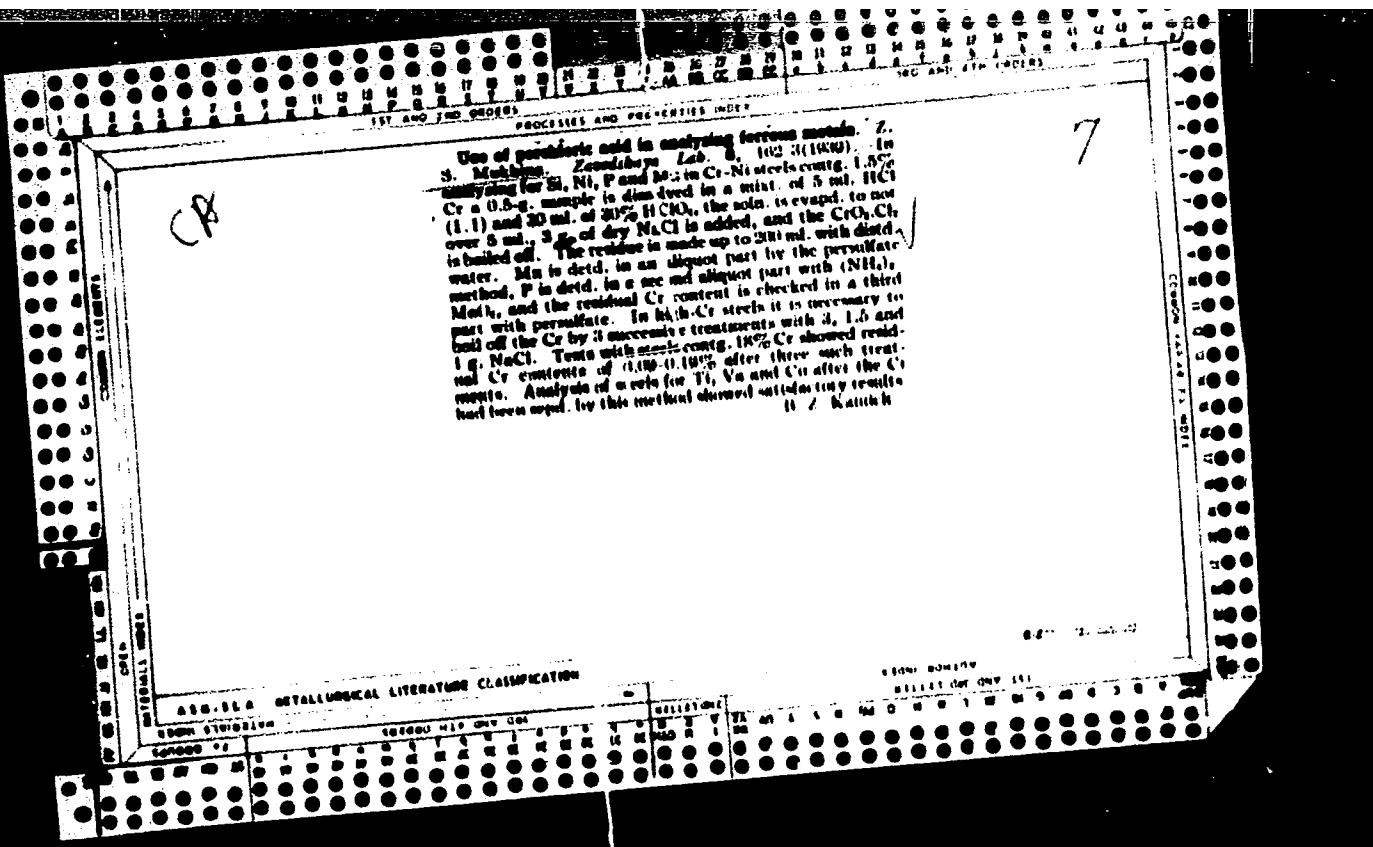
MUKHINA, Z.S.
MUKHINA, Z.S.

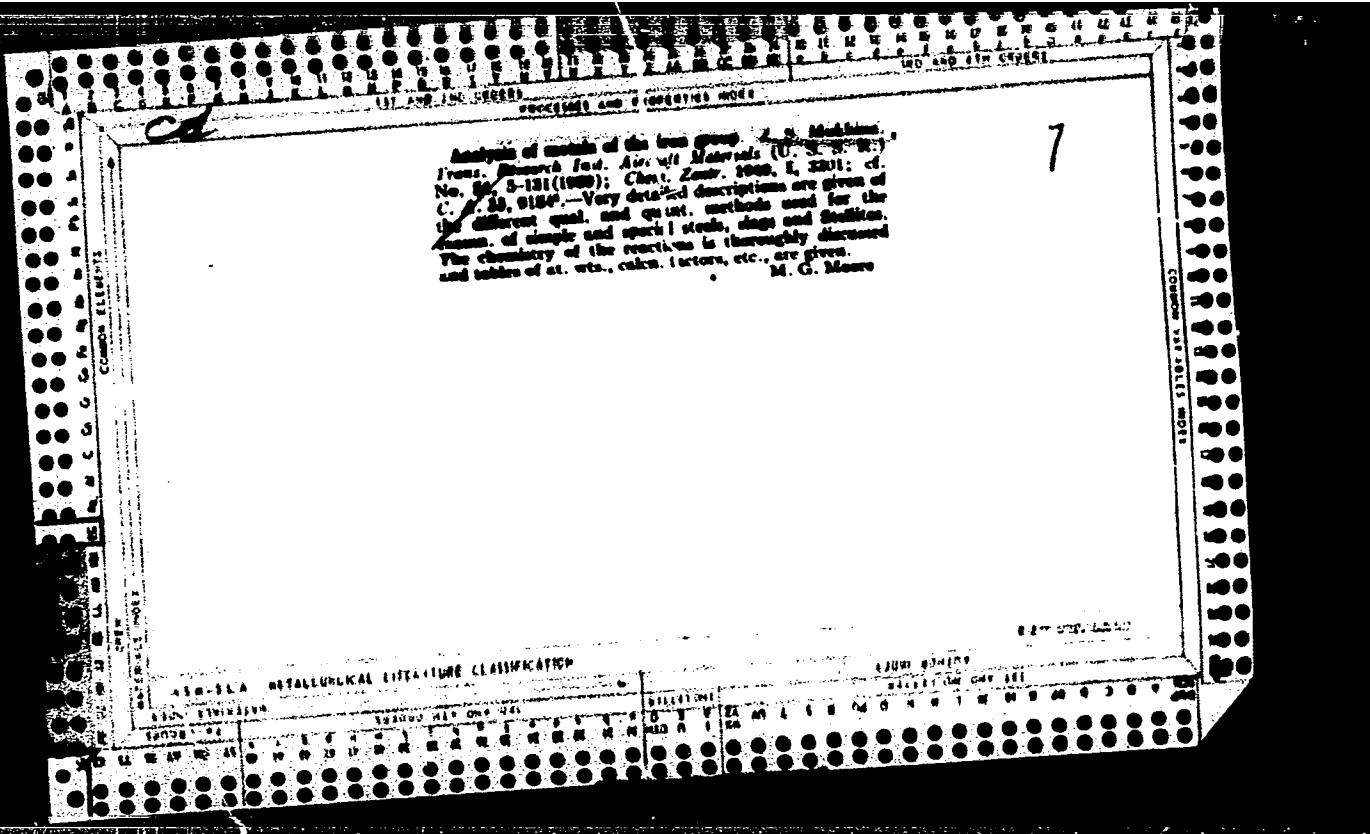
Analiz chernykh metallov. Pod red. F. K. Gerke. 2. izd. Moskva, Obroruziz,
1939. 131 p., diagrs. (VIAM. Trudy, no.54)

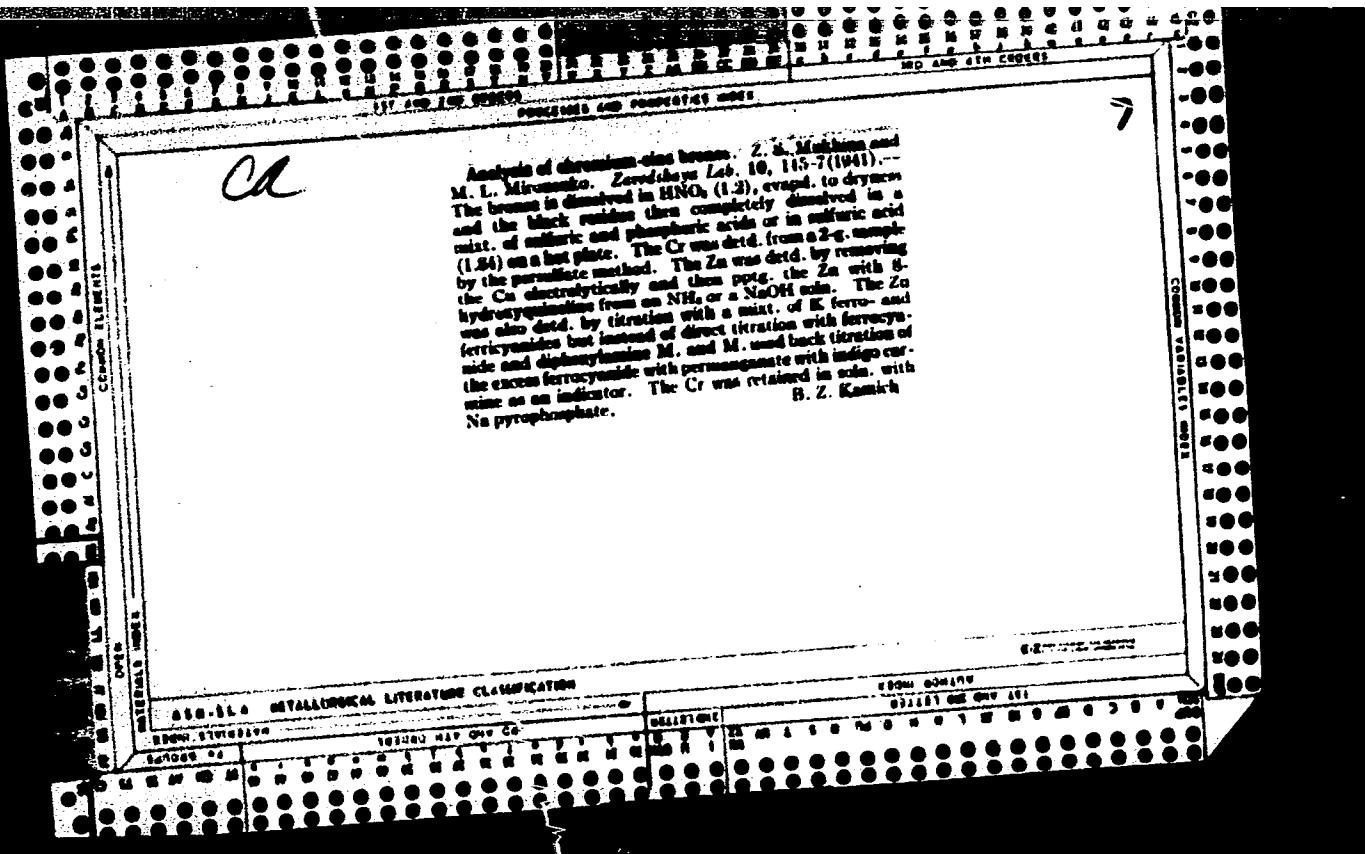
Title tr.: Analysis of ferrous metals.

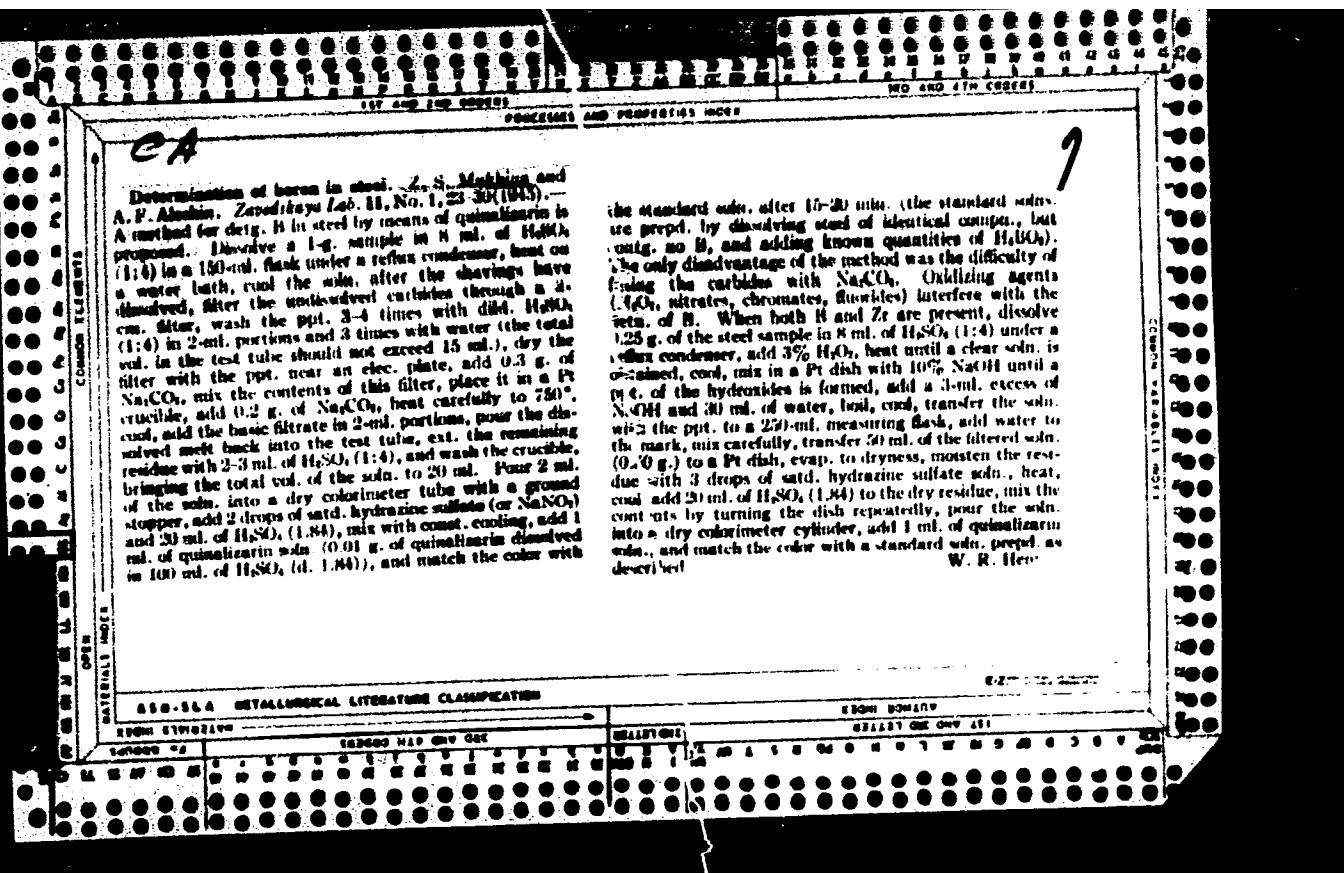
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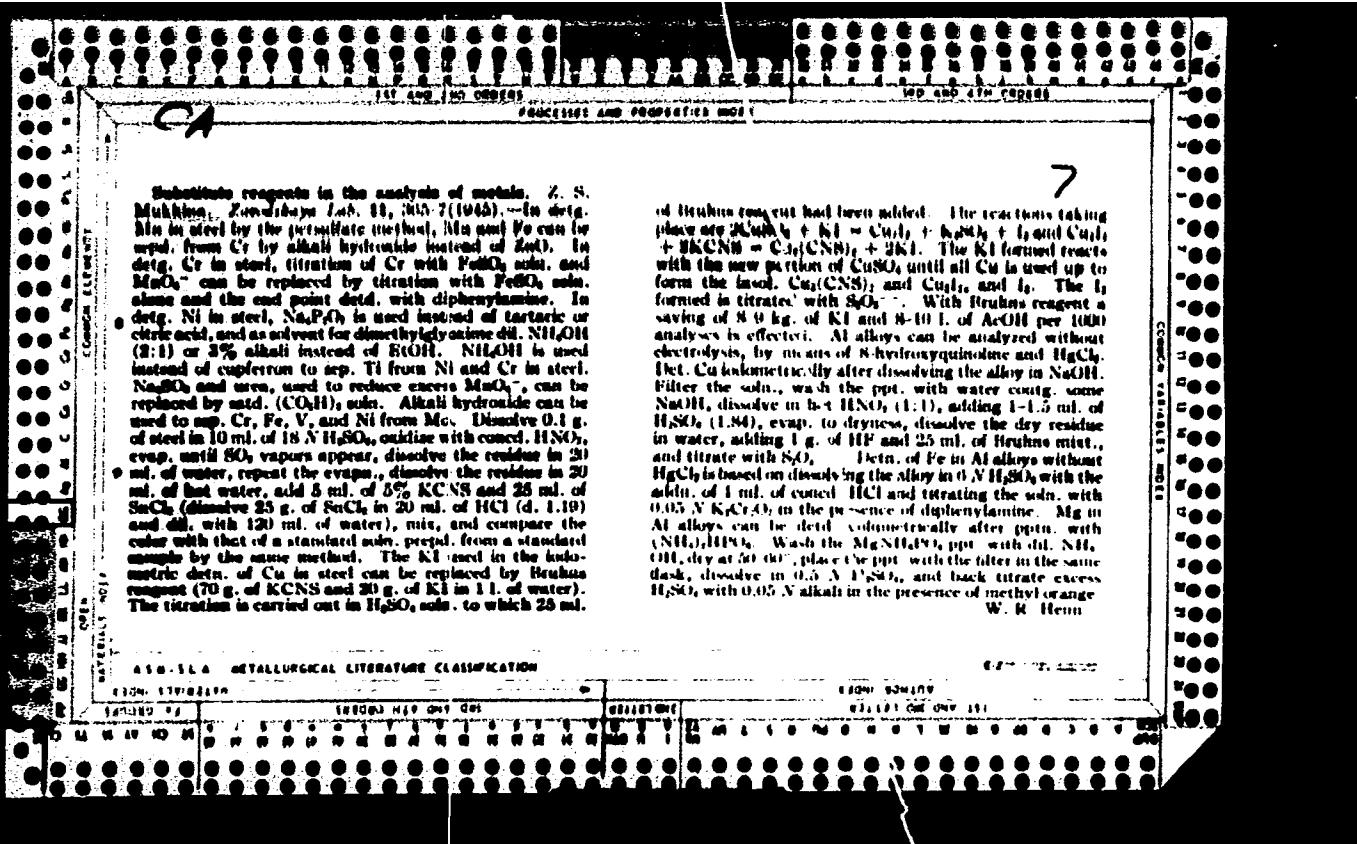
SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress,
1955

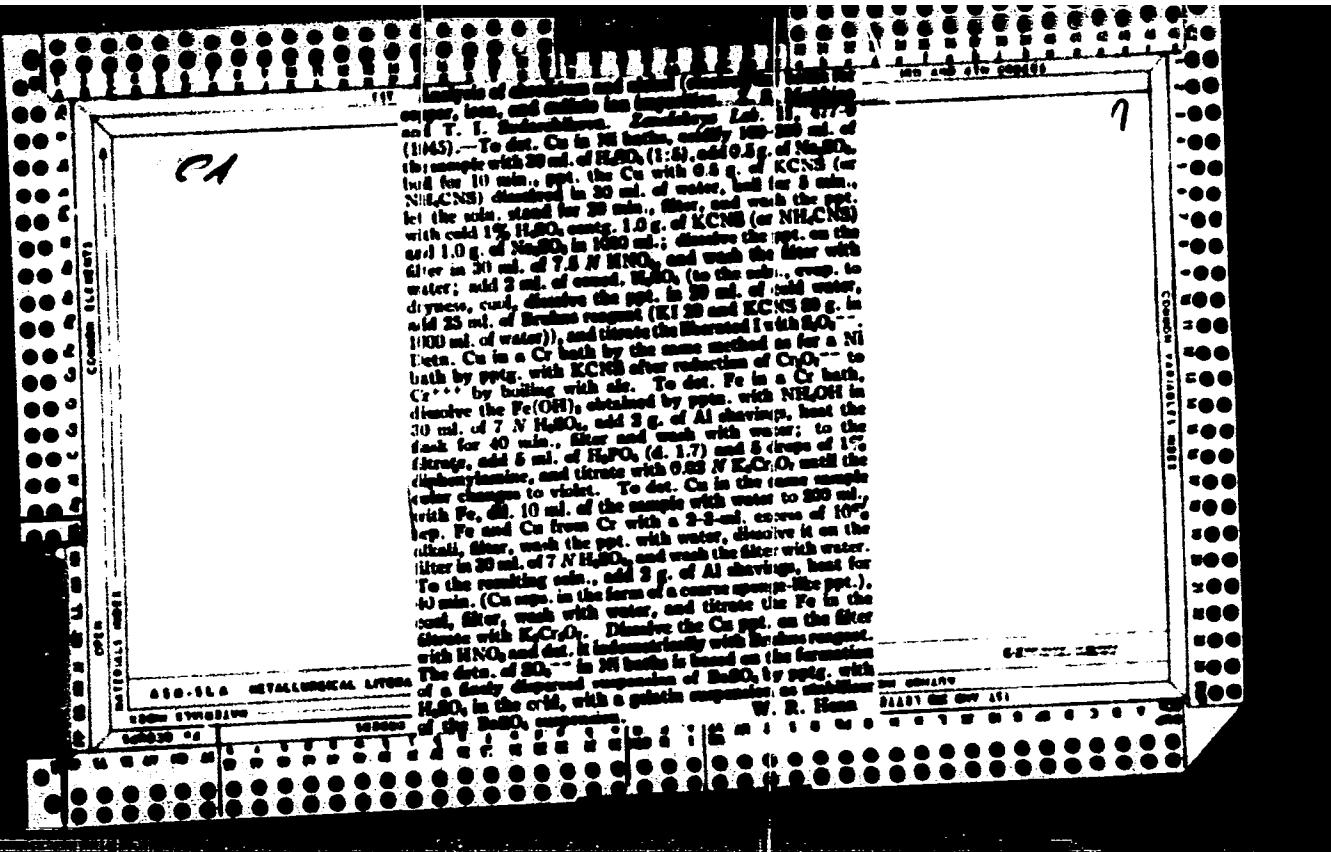


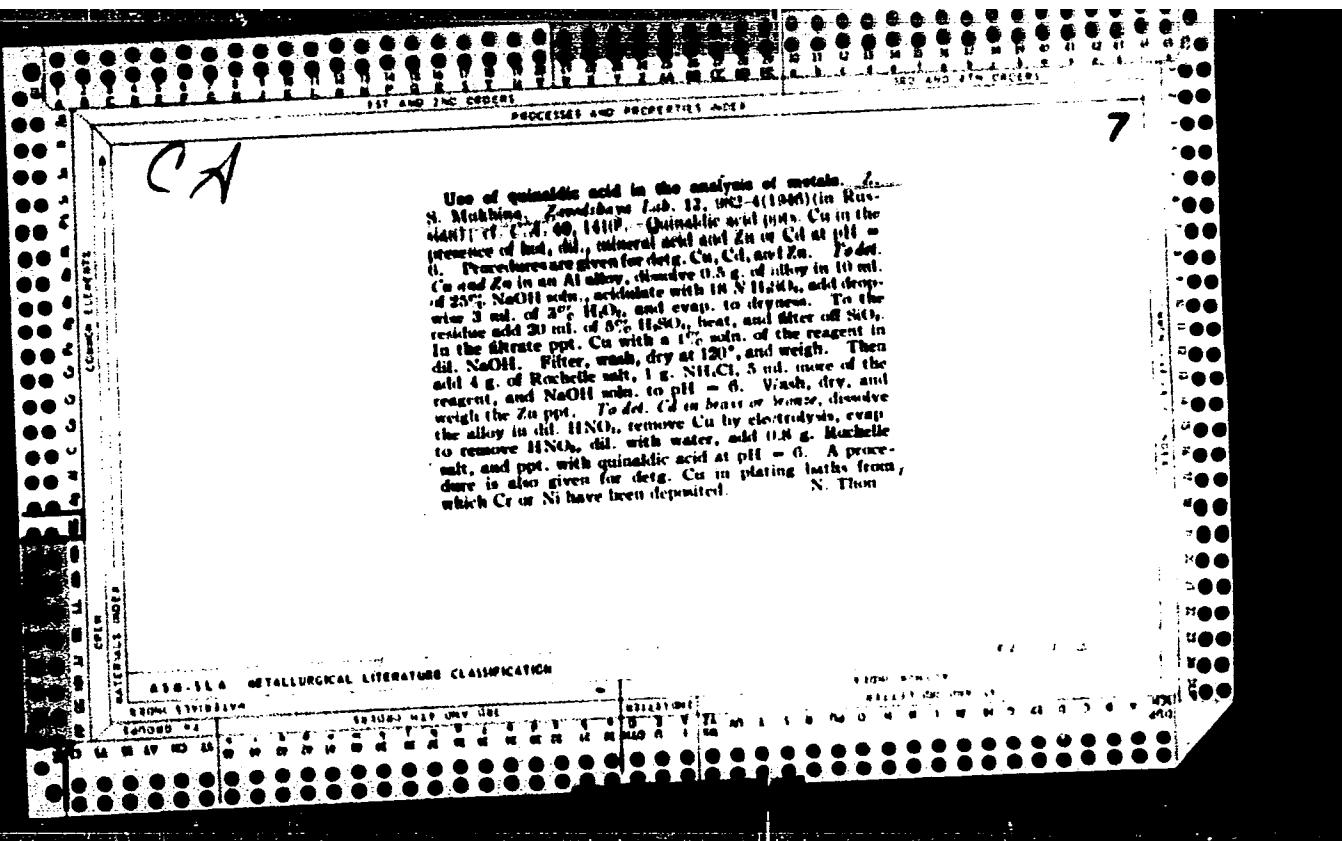












MUKHINA, Z. S.

PA 11T45

~~UDC~~ /Polarographic Analysis
Metallurgy

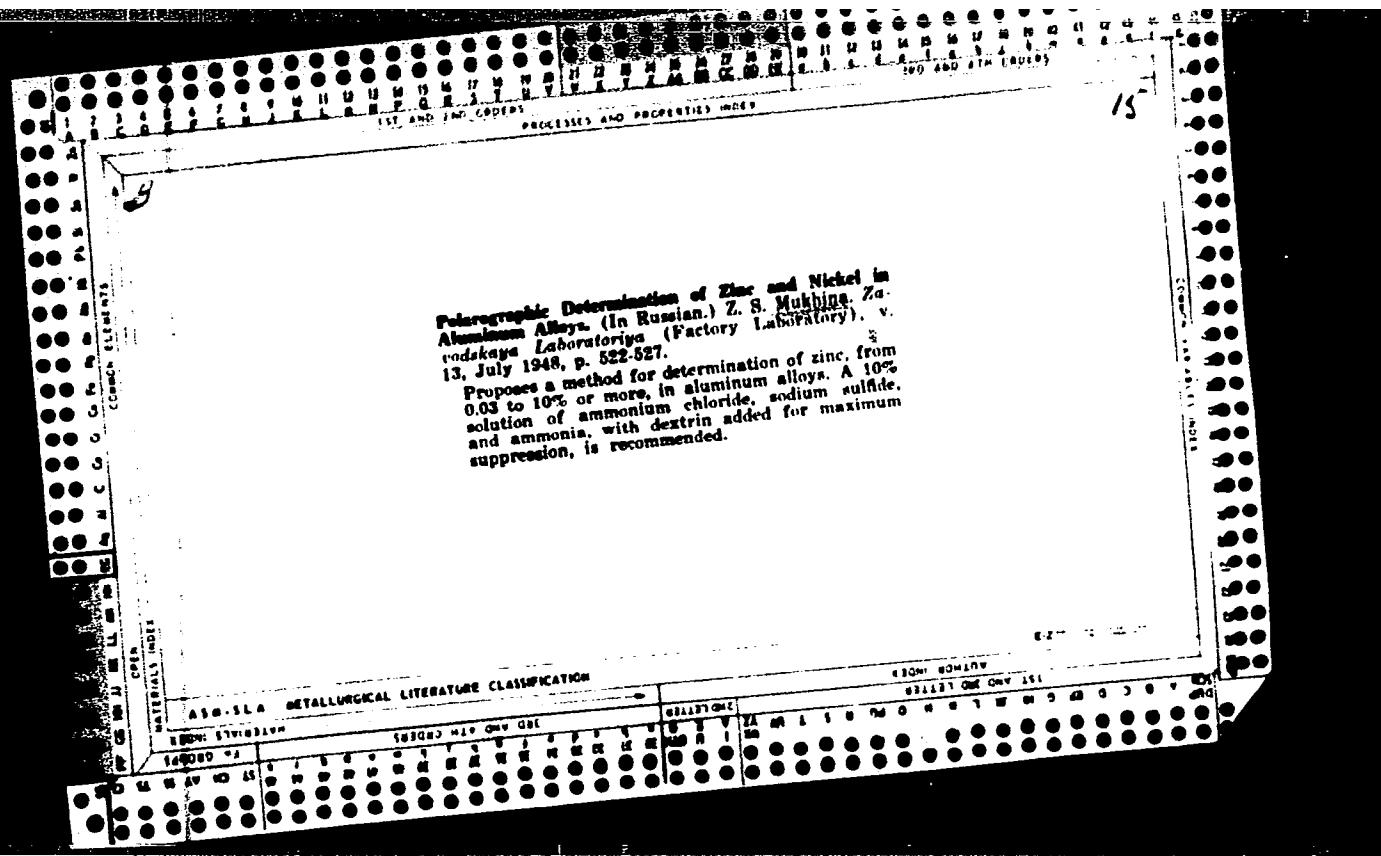
May 1947

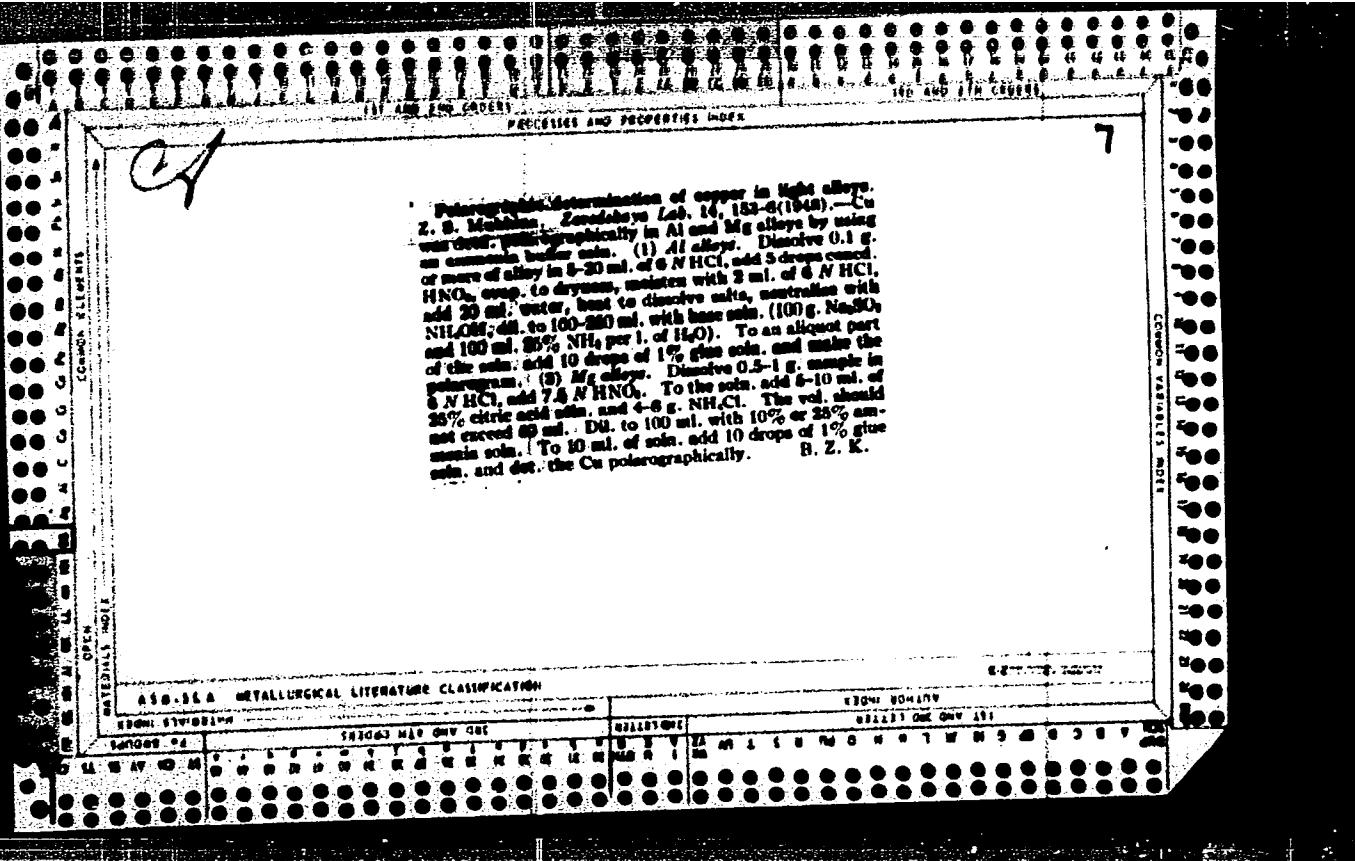
"Determination of Lead in Steel by Polarographic Method," Z. S. Mukhina, 1 p

"Zavod Lab" Vol XIII, No 5 - p-620-11

Brief account of a method using a solution of 6-normal saline and 12% phosphoric acid. Table given of comparative results of the polarographic method and the molybdate method.

11T45 |





MUKHINA. Z. S.

PA 62T69

Mukhina - Determination
Metallurgy

Mar 1948

"Determination of Indium in Lead Bearings," Z. S.
Mukhina, All-Union Inst Aviation Materials, 1 p

"Avvod Lab" Vol XIV, No 3

Describes very favorable results obtained for indium determination in lead bearings using ammonium acetate. Experiments were conducted on lead nitrate solutions containing indium. Comparison of this method to the polarographic method shows that the former has considerable time-saving advantage.

MUKHINA, Z.S.

PA 28/49T14

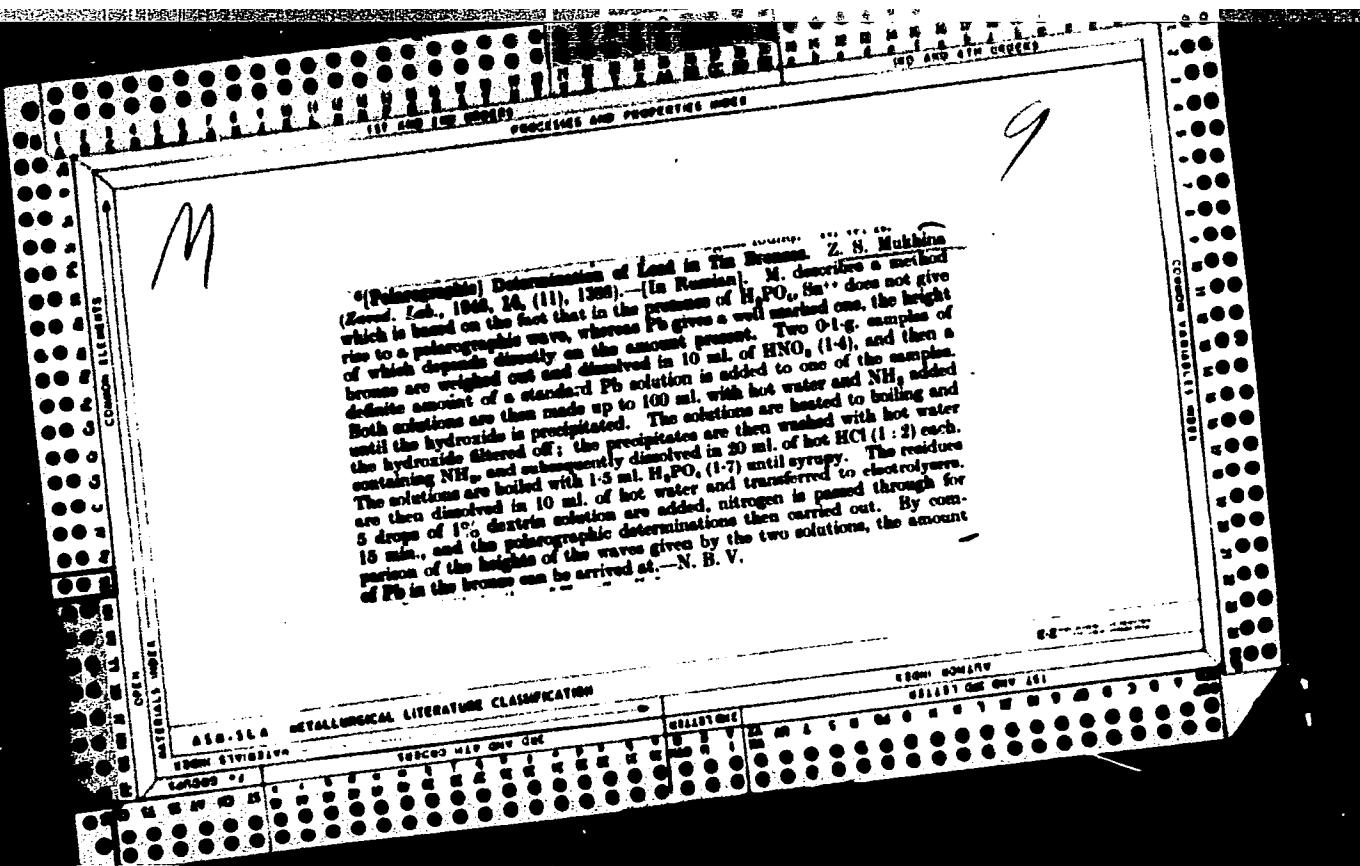
Chem/Chemistry - Magnesium, Determination Oct 48
Chemistry - Titration, Polarimetric

"Determination of Magnesium, Molybdenum, and Nickel by
Polarimetric Titration," Z. S. Mukhina, All-Union Inst
of Avn Materials, 4 pp

"Zavod Lab" Vol XIV, No 10 - p. 114-118

Develops polarimetric method of determining magnesium,
molybdenum, and nickel, which considerably shortens
the process. Shows that the results meet requirements
for arbitrary analysis.

28/49T14



CA

7

Determination of tin in aluminum alloys and other metals. Z. S. Mukhina. *Zavodskaya Lab.* 16, 546-8 (1950).—The anal. proce. involves sepn. of stannic and antimony acids by pptn. in the MnO₂; the ppt. is taken up in HCl, reduced to give Sn by means of NaH₂PO₂, Fe, or NH₄OH, then a little glass is added and the soln. is blown with N for 15 min. after which the Sn is detd.—polarographically as usual. The Al alloys are treated first with NaOH, others with mineral acids. G. M. K.

*Mukhina 25**1 21 2*

page Xerographic basis of analysis of silver solder.
2. G. Mukhina. Report of symposium: Invention
Memory Analysis Method in Metallurgy. 1968

104-197. Ref. Chem. News 1969, April 10, No.
22,702.—Dissolve the solder (0.5 g) in 15 ml of
HNO₃, boil until residues of N₂ add 0.1 N HCl to
precipitate AgCl completely and, after 30 to 60
min., filter off and wash it with hot water.
In the filtrate add 10 ml of 1% Na₂S₂O₃ and collect the precipitate of Ag₂S₂O₃. Wash it
with water and dry at 100°C. Dissolve the residue in 60% HCl (5 ml),
dryness. Dissolve the residue in 60% HCl (5 ml),
add 10 ml of water and transfer to a 100-ml flask.
Add aq. NH₃, till alkaline and make up to the mark.
Obtain a polarogram for Cu at -0.66 V, Cd at
-0.8 V and Zn at -1.4 V. The basal soln. con-
sists of 100 g o. NH₄Cl, 100 ml of aq. NH₃, 54 g of
Na₂SO₄ and 10 ml of 1% dextrin soln made up
to 1 liter. Zinc may be determined by ampero-
metric titration with Na diethyldithiocarbamate
soln. with a mercury cathode after removal of Cu,
Cd and Ni with alkali. Silver is determined by
titration with diethylthiocarbamate after dissolv-
ing the AgCl in alkali and acidifying to quenching
yellow. Cadmium may also be determined (after
removal of Al as AgCl and Cu with Na₂S₂O₃) by
titration with 5-6 benzquinolinol after the addition
of KI soln.

G. D. Korkin

*D. 1**11*

MUKHINA, Z.S.

Determination of traces of lead, bismuth, tin, and chromium in nickel alloys. Z. S. Mukhina, A. A. Tikhonova, and I. A. Zhemchuzhaya. *Zarubezhnaya Lab.* 22, 535-7 (1954). Pb is pptd. as PbS, with Cu to collect the ppt. (Bricker and Proctor, *C.A.* 39, 4024). The detn. is completed polarographically in tartaric acid soln. or colorimetrically with dilution. Bi₂S₃ is also pptd. with CuS at a collector, and then detd. polarographically or colorimetrically as an iodide complex. When the Bi content is very low it must be first extracted with iso-AminOH and EtOAc, 3:1. SnS must be pptd. in the presence of citric or tartaric acid if W, V, or Ti is present. The ppt. is collected on MnO₂. The detn. is completed polarographically in 6N HCl. CdS can be copptd. with methyl violet and titrated polarographically with NH₄Cl, or detd. colorimetrically with dithizone.

W. M. Fetterberg

3

MUKHINA, Z.S.

✓ 1515. Polarographic determination of niobium
and tungsten in alloys. Z. S. Mukhina and A. A.
Tikhonova. Zavod. Lab., 1936, 22 (10), 1154-1159.

In 10% HCl in the presence of citric acid as complexing agent Nb gives a polarographic wave at ~ 0.98 V vs. the S.C.E. and W a wave at ~ 0.42 to 0.44 V. With ratios of Nb to W of between 1:1 and 1:5, determination of the two elements in the same soln. is possible. The method is applied to the determination of Nb in the presence of W in alloys based on Ni, Cr, Fe and Co. To determine Nb and W in steel, 1 g is dissolved in 40 ml of dil. HCl (1+1) with the addition of a few drops of HNO_3 , the soln. is evaporated to dryness, and the residue is moistened with 10 ml of conc. HCl, which is evaporated off. The residue is dissolved in 200 ml of 2% HCl, the hot soln. is filtered and the washed ppt. is ignited and fused with 4 to 5 g of K_2CO_3 . The melt is dissolved in water and diluted to 100 ml in a calibrated flask. A portion (10 ml) of the filtered soln. is mixed with 0.2 ml of 50% potassium citrate soln. and 20 ml of conc. HCl and 5 drops of gelatin soln. and diluted to 50 ml in a calibrated flask. After passage of N to remove O₂ the polarogram is taken.

G. S. Sauri

E

Country : USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., № 23, 1958, № 103509

Author : Belyayeva, I. A.; Mukhina, Z. S.

Inst : -
Title : Study of the Activity and Stability of the
Commercial Series of Cholera Bacteriophage

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzhedgiz, 1957,
333-336.

Abstract: Study of 48 series of cholera phage prepared in
different years showed that keeping them under
refrigerator conditions for 18-23-25 months did
not notably change their titer, range of lytic action
or rapidity of the occurrence of the secondary growth.
Ya. I. Rautenshteyn.

Card : 1/1

42

MUKHINA, Z., tkachikha.

Expedite the construction of preschool institutions. Okhr. truda
i sets. strakh. no.3:59-61 S '58. (MIRA 12:1)

1. L'nofabrika imeni Oktyabr'skoy revolyutsii.
(Kostroma--Textile workers)
(Maternal and infant welfare)

5(2)

PHASE I BOOK EXPLOITATION

SOV/3224

Mukhina, Zinaida Stepanovna, Yekaterina Ivanovna Nikitina, Lidiya Mitrofanovna Budanova, Raisa Samuilovna Volodarskaya, Lyudmila Yakovlevna Polyak, and Anna Aleksandrovna Tikhonova

Metody analiza metallov i splavov (Methods of Analysis of Metals and Alloys) Moscow, Oborongiz, 1959. 527 p. Errata slip inserted. 8,050 copies printed.

Ed. of Publishing House: T. M. Kunyavskaya; Tech. Ed.: V. P. Rozhin.

PURPOSE: This book is intended for laboratory technicians of plants and may also be of use to personnel of chemical and analytic laboratories of scientific institutions and schools of higher education.

COVERAGE: The book reviews various methods of analyzing steel, cast iron, complex iron, chromium-, nickel- and cobalt-base alloys. It also reviews methods of determining the content of elements in aluminum, magnesium and copper alloys as well as in various binary alloys. Principles of physical and chemical analysis for

Card 1/14

Methods of Analysis of Metals and Alloys

SOV/3224

metallurgical studies are briefly explained, and laboratory equipment used for this kind of analysis is described and illustrated. Methods of analysis are grouped according to the type of alloy being analyzed. Each method is described and its accuracy, theoretical basis and procedure are indicated. The application of chromatographic separation in analyzing various metal alloys is explained. The appendix contains the description of various titration solutions, the reactivation of solutions and tables indicating weights of substances used in acidimetry as well as certain oxidizers, reducing agents, conversion coefficients, atomic weights of elements, etc. V. Ye. Bukhtiarov and D. V. Romanov wrote the part entitled "Methods of Chromatographic Analysis". There are 118 references: 108 Soviet, 4 German, 3 English 2 Czech and 1 French.

TABLE OF CONTENTS:**Foreword**

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Ch. I. Principles of Physicochemical Analysis

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Part A. Colorimetric analysis

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Card 2/14

MUZHINA, Z.S.; TIKHONOV, A.A.; ZEMCHUZHNAIA, I.A.

Determining lead, bismuth, tin, cadmium impurities in niobium and
niobium alloys. Trudy Kon. anal. khim. 12:71-74 '60. (NIRKA 13:8)
(Niobium--Analysis)

MUKHINA, Z.S.; TIKHONOV, A.A.; ZEMCHUZHNAIA, I.A.

Detecting traces of lead, tin, bismuth and cadmium in metallic chromium
and its alloys. Trudy Kon. anal. khim. 12:298-310 '60.

(Chromium--Analysis)

(MIRA 13:8)

PHASE I BOOK EXPLOITATION

SOV/6035

Mukhina, Zinaida Stepanovna, and Yekaterina Ivanovna Nikitina

Uskorennyye metody analiza titana i yego splavov (Accelerated Methods of Analyzing Titanium and Titanium Alloys) Moscow, Oborongiz, 1961. 121 p. Errata slip inserted. 5050 copies printed.

Ed.: T. M. Kunyavskaya; Tech. Ed.: L. A. Garnukhina; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for technical personnel of scientific research institutes and analytical laboratories of metallurgical and machinery plants. It can also be used in schools of higher education.

COVERAGE: The book describes chemical and (mainly) physicochemical methods of determining all the components of industrially produced titanium alloys. Of continuum methods, selected from several cited, for determining each of the com-

Card 1/2

Accelerated Methods of Analyzing (Cont.)

SOV/6035

ponents are described. In most of the methods [for Fe, Cr, Ni, V, Co, Si, Mg, Mn, Mo, Sb, Ta, P, Cl, S, Cu, Cd, and Zn], the component can be determined directly from a solution of the alloy sample. Such a procedure eliminates extraction processes and considerably expedites and simplifies the entire analytical procedure. The determination of small amounts of Ni, Al, Cu, and Zn in alloy samples with organic reagents is described. An amperometric method which employs a solid electrode in determining Cr and V in a single sample is also detailed. Emphasis is placed on the determination of impurities. No personalities are mentioned. There are 19 references: 14 Soviet and 5 English.

TABLE OF CONTENTS [Abridged]:

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| Selection of Samples for Chemical Analysis | 4 |

Card 2/12

ZAKHAROVA, Galina Vasil'yevna, kand. tekim. nauk; POPOV, Ivan Alekseyevich, kand. tekhn. nauk; ZHOROVA, Liliana Pavlovna; FEDIN, Boris Vladimirovich; Prinimali uchastiye: MURKINA, Z.S., zasl. deyatel' nauki i tekhn. RSFSR; POPOVA, I.A., zasl. deyatel' nauki i tekhn. RSFSR; YEGOROVA, N.D., zasl. deyatel' nauki i tekhn. RSFSR; NIKITINA, Ye.I., zasl. deyatel' nauki i tekhn. RSFSR; ZHEMCHUZHENAYA, Ye.A., zasl. deyatel' nauki i tekhn. RSFSR; ZHABINA, V.A.; SAVITSKIY, Ye.M., red.; STROYEV, A.S., red.; ARKHANGEL'SKAYA, M.S., red. izd-va; KARASEV, A.I., tekhn. red.

[Niobium and its alloys] Niobii i ego splavy. By G.V.Zakharova i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvernoi metallurgii, 1961. 368 p. (MIRA 14:12)
(Niobium)

MUKHINA, Z.S.; ZHEMCHUZHNAVA, I.A.; KOTOVA, G.S.

Analysis of impurities in refractory alloys based on nickel, cobalt,
iron, and chromium. Zhur.anal.khim. 17 no.2:170-173 Mr-Ap '62.
(MIRA 15:4)
(Alloys) (Metals--Analysis)

ZHENDAREVA, Ol'ga Grigor'yevna; MUKHINA, Zinaida Stepanovna;
KUNYAVSKAYA, T.M., red.; PUKHLIKOWA, N.A., tekhn. red.

[Methods of analyzing electroplating baths] Metody ana-
liza gal'vanicheskikh vann. Moskva, Oborongiz, 1963.
269 p. (MIRA 16:10)

(Electroplating)

L 62695-65 EMT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD

ACCESSION NR: AP5018755

UR/0075/65/020/007/0785/0788
543.253

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32

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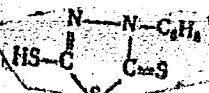
AUTHOR: Mukhina, Z.S.; Kotova, G.S.; Kuz'micheva, R.A.

43, 55 47, 55 44, 55
TITLE: Determination of lead, copper, bismuth, and cadmium in heat-resistant alloys

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 7, 1965, 785-788

TOPIC TAGS: lead determination, copper determination, bismuth determination, cadmium determination, heat resistant alloy, nickel alloy, chromium alloy

ABSTRACT: A method was developed for extracting trace impurities (0.0001% and more) of lead, bismuth, copper, and cadmium, in the form of diethyldithiocarbamates, and for extracting trace impurities of these metals with a solution of bismuthol II



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L 62695-65

ACCESSION NR: AP5018755

in chloroform. The determination of these elements is carried out by using a single sample of the heat-resistant alloy and an oscillopolarographic (or photometric) method as the last step of the determination. The entire analytical procedure is described in detail for the case of nickel and chromium heat-resistant alloys, and results of a determination of lead are tabulated for the case of EI437b alloy. Oscillographic polarography increases the sensitivity of the determination considerably. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 20Apr84 ENCL: 00 SUB CODE: MM, IC

NO REF NOV: 007 OTHER: 009

dm
Card 2/2

MUKHINA-KOROTOVA, T.K.

Some features of the formation of sound pitch differentiation
at an early age. Vop. psichol. 10 no.1:61-71 Ja-F'64
(MIRA 17:3)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,
Moskva.

MUKHITDINOV, A. M.

Dissertation: -- "Calculation of Prestressed Reinforced-Concrete Bridge Girders Supported by a Flexible Arch." Cand Tech Sci, Leningrad Inst of Railroad Transport Engineers, Leningrad, 1954. (Referativnyy Zhurnal--Mekhanika, Moscow, Jun 54)

SO: Sum 318, 23 Dec. 1954

ADILKHODZHAYEV, A. A.; MUKHITDINOV, A. M.

Experimental study of the shearing strength of keramzit concrete
wall slab. Sbor. nauch. trud. MII po stroi. ASIA no.2:45-57 '61.
(MIRA 16:1)

(Concrete walls—Testing) (Keramzit)

MUKHITDINOV, A.N., aspirant

Detection of urinary calculi invisible to X-rays with the aid of
bilitrast. Med. zhur. no.10:23-25 '61. (MIRA 14:10)

1. Iz kafedry rentgenologii i meditsinskoy radiologii Tashkent-
skogo gosudarstvennogo meditsinskogo instituta (nauchnyy rukovoditel'-
prof. D.N.Maksumov).

(CALCULI, URINARY) (PHORETIC ACID)

MUSHEIDINOV, A.M.

Calculation of the tension of elements of stressed reinforcements of reinforced concrete structures according to the "deformations". Sbtr. nauch. trud. NI po strui. ASKA no.48
2-9 '63.
(MIR4 1918)

MUKHITDINOV, B.N.; SKRIPNIK, T.N.

X-ray clinic observations of patients with various forms of intestinal stasis during treatment at the Khodzha-Obi-Garm health resort. Preliminary report. Zdrav. Tadzh. 6 no. 5:21-24 '59. (MIRA 13:3)

1. Iz Yerevanskogo instituta rentgenologii i onkologii i kurorta
Khodzha-Obi-Garm.
(OBI-GARM-MINERAL WATERS) (CONSTIPATION)

MUKHITDINOV, B. N., Cand. Medic. Sci. (diss) "Functional and Morphological Changes of Large Intestine in Patients with Chronic Colitis After Treatment at Khodzha-Obi-Garm Health Resort. (Dynamic X-ray Observations)," Yerevan, 1961, 19 pp. (Yerevan Med. Inst.) 200 copies (KL Supp 12-61, 287).

KICHEVA, Ye.F.; MUKHITDINOV, B.N.

Development of X-ray service in Tajikistan. Zdrav.Tadzh. 9
no.3:52-54 My-Je '62. (MIRA 15:8)
(TAJIKISTAN--RADIOLOGY, MEDICAL)

MUKHITDINOV, G.N.

Carbonization effects in alkali rocks of the Vichnevyye Mountains.
Trudy Inst.min., geokhim.i kristalokhim.red.elem. no.2:265-270
'59. (MIRA 15:4)
(Vishnevyye Mountains--Rocks, Carbonate)

YES'KOVA, Ye.M.; MUKHITDINOV, G.N.; KHALEZOVA, Ye.B.

Characteristics of the chemical and mineralogical composition of
alkali rocks in the Vishnevyye Mountains. Trudy Inst. min., geokhim.
i kristallokhim. red. elem. no. 3:127-144 '59. (MIRA 14:5)
(Vishnevyye Mountains—Rocks, Igneous—Analysis)

3(5)

AUTHORS:

Zhabin, A. G., Mukhitdinov, G. N.

SOV/20-126-5-39/69

TITLE:

On the Hypogene Dispersion Halo of Rare Earths Around the
Vishnevogorskaya-II'menogorskaya Miascrite Intrusion (South Ural)
(O gipogennom oreole vynosa redkikh zemel' vokrug Vishnevogorskoy-
II'menogorskoy intruzii miaskitov) (yuzhnnyy Ural))

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1055-1057
(USSR)

ABSTRACT:

The intrusion of the biotite-nepheline-syenites (miascites) mentioned in the title lies in the core of an anticinal fold of meridional range. This fold constitutes a structural part of the Sysertsко-II'menogorskiy anticlinorium and of the Il'menogorskaya suite consisting of gneiss and crystalline slate (separated out by B. M. Ronenson in 1958). The endocontact varieties of the miascrite were transformed into nepheline-less alkaline syenites due to the interaction with the containing rocks. The containing rocks of the intrusion exocontact were metasomatically and extensively transformed into aegirite-augite-microcline- and biotite-microcline-phenites. In the phenite zone of the northern part of the Vishnevyye gory a great variety of rare earths was ascertained. Besides the known rare earths (orthite, chevkinite,

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On the Hypogene Dispersion Halo of Rare Earths Around SOV/20-126-5-39/69
the Vishnevogorskaya-II'menogorskaya Miascitic Intrusion (South Ural)

and eschynite) also bastnasite, britolite, monacite, rare-earth thorianite, betafite and niobo-eschynite were found. The rare earths are also present in the calcite, sphene (in tenths of per cent) as well as in the apatite. Inside the intrusion mentioned in the title, manganese-orthite (Ref 3) was only found singly. Various paragenetic associations of the minerals of rare earths appear, which belong to different stages of the mineral formation, which are genetically connected with the said intrusion. The earliest paragenesis is apparently formed by orthite-containing phenites, gneiss transformed into phenite, and the calcite-diopside-scapolite rocks. The next association is bound to feldspar-pegmatites deposited in the phenites and the above-mentioned gneiss (eschynite, betafite, orthite). One part of these veins is siliceous miascitic, another part is quartz-microcline-granite-pegmatite transformed into phenite. A regular gravitation of the eschynite to the endo- and exo-contact of the miascitic pegmatites deposited in containing rocks speaks of an undoubtful loss on erosion, (vynos) of the rare earths from the pegmatites into the rocks last mentioned. The principal mass of the rare earths is scattered in calcite and

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On the Hypogene Dispersion Halo of Rare Earths Around SOV/20-126-5-39/69
the Vishnevogorskaya-II'menogorskaya Miascitic Intrusion (South Ural)

apatite. The most interesting paragenetic associations, in which rare earths take part, belong to the 2nd phase of the carbonatization stage which fill out the cracks of the phenite as small veins. After the carbonatization stage, small veins of quartz-arfvedsonite are formed in the phenites. All interesting discoveries of chevkinite were made here. Also britholite (recently found to be identical with lessingite (Ref 6)) was found here. The composition of the rare earths in the said minerals is very similar: Cerium dominates over all others. The sum of lanthanum, cerium and neodymium amounts, for example in orthite, to 94.4% of the total quantity of rare earths, in the chevkinite to 96, in the eschynite to 80.5% (according to data by Ye. M. Yes'kova) and in the calcite to 89%. There are 5 references, 4 of which are Soviet.

ASSOCIATION: Institut mineralogii, geokhimii i kristallografi redkikh elementov
(Institute of Mineralogy, Geochemistry and Crystallography of Rare Elements)

PRESENTED: January 16, 1959, by D. I. Shcherbakov, Academician

SUBMITTED: January 14, 1959
Card 3/3

MURKHTINOV, G. N.

31

PHASE I BOOK EXPLOITATION

807/5740

Akademiya nauk SSSR. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov

Voprosy mineralogii, geokhimii i genetiki mestorozhdeniy redkikh elementov
(Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements)
Moscow, Izd-vo AN SSSR, 1960. 253 p. (Series: Its: Trudy, vyp. 4) Errata
printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Member, Academy of Sciences USSR;
Resp. Ed.: V. V. Lyakhovich; Ed. of Publishing House: L. S. Tarasov;
Tech. Ed.: P. S. Kashina.

PURPOSE: This book is intended for geologists, mineralogists, and petrographers.

COVERAGE: This is a collection of 23 articles on the formation, geology,
mineralogy, petrography, and geochemistry of deposits of rare elements in
Siberia and [Soviet] Central Asia. The distribution and characteristics of
rare elements found in these areas as well as some quantitative and qualitat-
ive methods of investigating the rocks and minerals in which they are found,

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Problems in Mineralogy (Cont.)

8G7/5740

or with which they are associated, are discussed. Two articles present an economic investigation of the possibilities of industrial extraction and utilization of selenium, tellurium, and hafnium. No personalities are mentioned. Each article is accompanied by references.

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Problems in Mineralogy (Cont.)

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MINERALOGY AND PETROGRAPHY

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Zhabin, A. G., G. N. Mukhiddinov, and N. Ye. Knzakova. Paragenetic Associations of Accessory Minerals of Rare Elements in Excocontact Fenitized Kamacite Intrusive Rocks of the Vichnevyye Mountains

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Korkin, V. I., Yu. A. Pyatenko, and A. V. Bykova. On Britholite of the Alkaline Rocks of Southwestern Tuva

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Problems in Mineralogy (Cont.)

SGV/5740

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ECONOMICS OF RARE ELEMENTS

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Kaganovich, S. Ya. Hafnium (Economic Survey) 246

AVAILABLE: Library of Congress

Card 6/6

JN/dtm/mms
11-14-61

MUKHITDINOV, G.N.; KHARCHENKO, L.Yu.

Characteristics of the structure and composition of exocontact
alkali pegmatites in the Vishnevyye and Ilmen' Mountains
miasite intrusion. Trudy IMGRE no.8:236-248 '62.

(MIRA 16:1)

(Vishnevyye Mountains—Pegmatites)
(Il'men Mountains—Pegmatites)

MUKHITDIMOV, I.

Edible wild plants of the Darvaza Range. Bot. zhur. 48 no.3:
419-422 Mr '63. (MIRA 16:4)

(Darvaza Range—Plants, Edible)

SABIROV, M.S., MUKHITDINOV, M.P.

Connection between a prime number P_n and its index.
Trudy UzGU no.78:143-146 '58. (MIRA 13:6)
(Numbers, Prime)

MUKHITDINOV, N.A.

[The achievements of the agricultural year and tasks for further developing cotton growing and other branches of agriculture in the Uzbek S.S.R. during 1956; a report at a conference of leaders of agriculture in Uzbekistan, December 20, 1955] Itogi sel'skokhosial'stvennogo goda i zadachi po dal'neishemu razvitiyu khlopkovodstva i drugikh otrasciei sel'skogo khoziaistva v Uzbekskoi SSR and 1956 god; doklad na soveshchanii peredovikov sel'skogo khoziaistva Uzbekistana 20 dekabria 1955 goda. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1956.
35 p.

(MLRA 9:10)

(Uzbekistan--Agriculture)

MUKHITDINOV, Nuritdin Akramovich

N/5
114.21
.M9

ISTORICHESKIYE RESHENIYA XX (I.E. DVADTSATOGO) S"YEZDA KPSS I ZADACHI
INTELLIGENTSII UZBEKISTANA (HISTORICAL DECISIONS OF THE 20TH PARTY CONGRESS
AND TASKS OF THE INTELLIGENTSIA OF UZBEKISTAN) MOSKVA, GOSPOLITIZDAT, 1956.

71 p.

SABIROV, M.S., MUHAMEDINOV, P. Kh.

Some orthogonal and biorthogonal systems. Trudy UzGU no.78:
147-152 '58. (NIRA 13:6)
(Numbers, Theory of)

ZYBIN, Yu.P., prof.; MUKHITDINOV, S.K., inzh.

Diagram of the pressure of the foot on the sole. Kosz.-obuv.
prom. 2 no.2:10-13 F '60. (MIRA 13:5)
(Boots and shoes) (Foot)

MUKHITDINOV, D.

Activity of defoliants in relation to the moisture supply of the
cotton plant. Dokl.AN Uz.SSR no.9:55-58 '58. (MIREA 11:12)

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chlenov-korrespondentom AN UzSSR S.S.Sadykovym.
(Cotton growing) (Defoliation)